MULTIMEDIA UNIVERSITY®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2018/2019

MMC3013 – MOTION CAPTURE

(All sections / Groups)

19 OCTOBER 2018
9.00 AM - 11.00 AM
(2 Hours)

INSTRUCTION TO STUDENT

1. This Question paper consists of 3 pages including cover page with four questions. Total marks is 40.
2. Answer **ALL** questions.
3. Please write all your answers in the answer Booklet provided.

Answer ALL questions.

Question 1

a) In the article Gamasutra: The Art & Business of Making Games, what is motion capture most useful for? Assuming a couple of caveats. One sentence only.

(5 marks)

b) In 2008, Professor Midori Kitagawa from the University of Texas at Dallas defined the essence of Motion Capture. Write down her definition in one sentence only.

(5 marks)

Question 2

Planning a motion capture shoot for a game is very important. There is a difference between planning for a film shoot and for motion capture. State the difference, name 2 only.

(10 marks)

Question 3

a) In 1882, few months after abandoning the Chronophotographic Gun, Etienne-Jules Marey invented the Chronophotographic fixed plate camera.

Briefly explain the function of the chronophotographic fixed plate camera

(2 marks)

b) In Motion Capture, there are two types of Non-Optical Motion Capture System. Briefly explain each types of Non-Optical Motion Capture System:

i) Mechanical Motion Capture System *(2 marks)*
ii) Magnetic Motion Capture System *(2 marks)*

Continued...

c) Based on figure 1, re-draw back the head model inside your answer sheet. According to what you have learned inside motion capture class, label the placement of the 14 markers on to the character's face by using the "X" symbol.

(4 marks)

Marking Criteria:-
5 correct marker placement - 1 mark
10 correct marker placement - 2 marks
14 correct marker placement - 3 marks (max)
Label by using "X" - 1 marks (total max marks = 4)

Question 4

When preparing for Motion Capture shoot, it is best to plan out in detail the pre-production to avoid any unwanted events.

a) List out the 4 types of pre-capture planning in Motion Capture industry.

(4 marks)

b) Based on the question 4 (a), choose only 3 and explain it briefly.

(6 marks)

End of Page.